

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Fig. 1A.

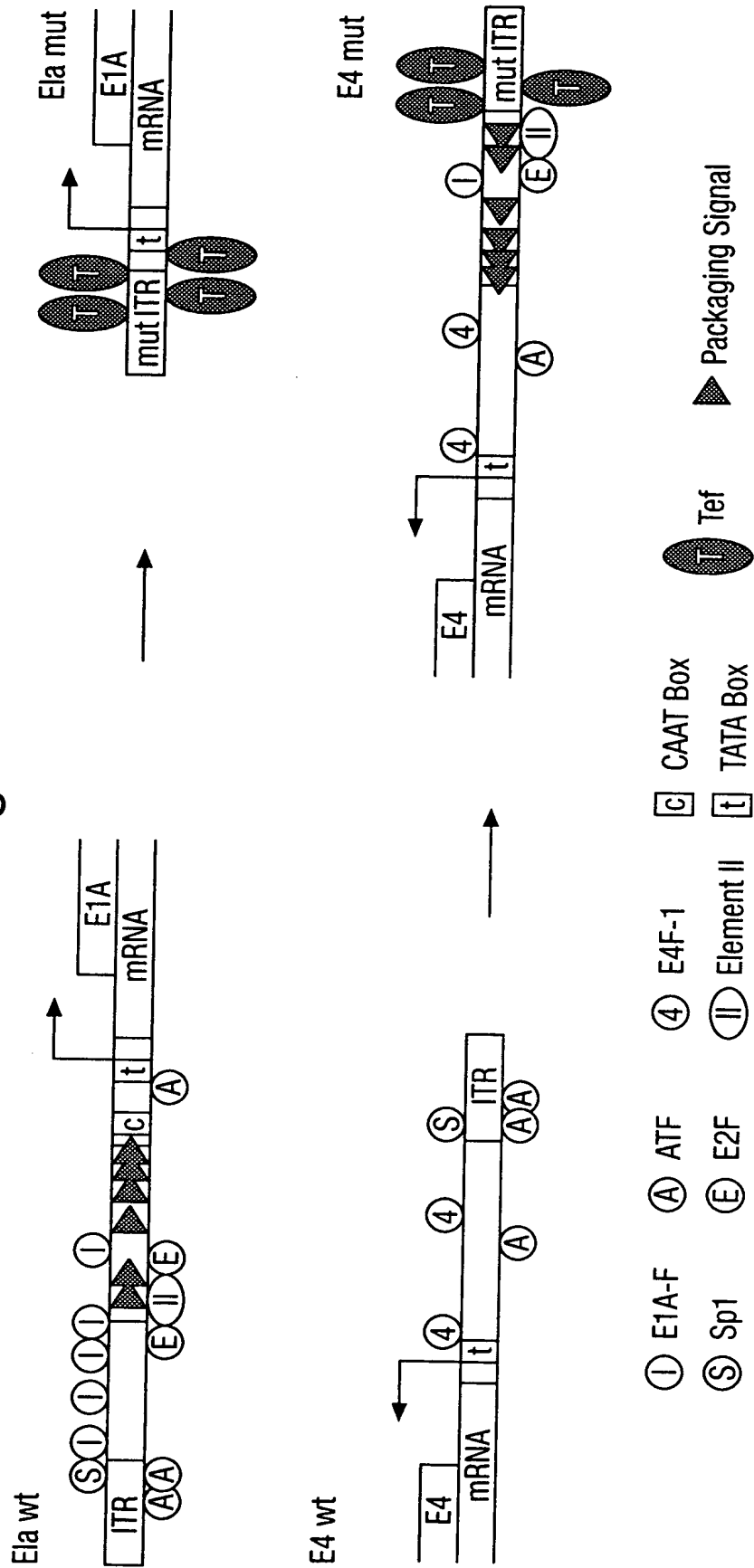
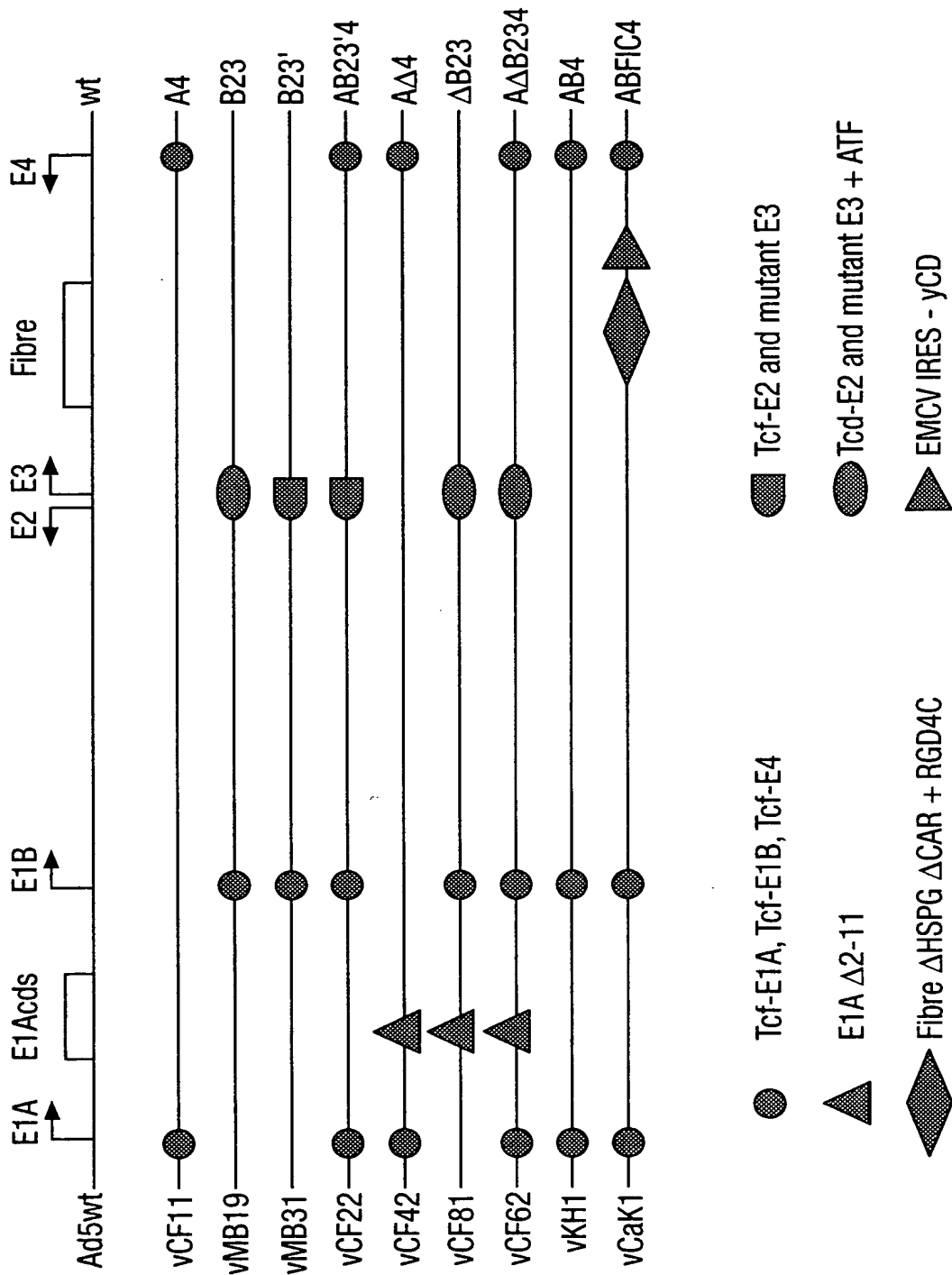




Fig. 1B.



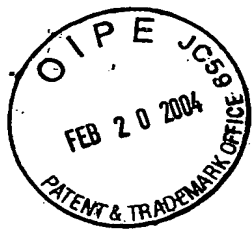


Fig.2.

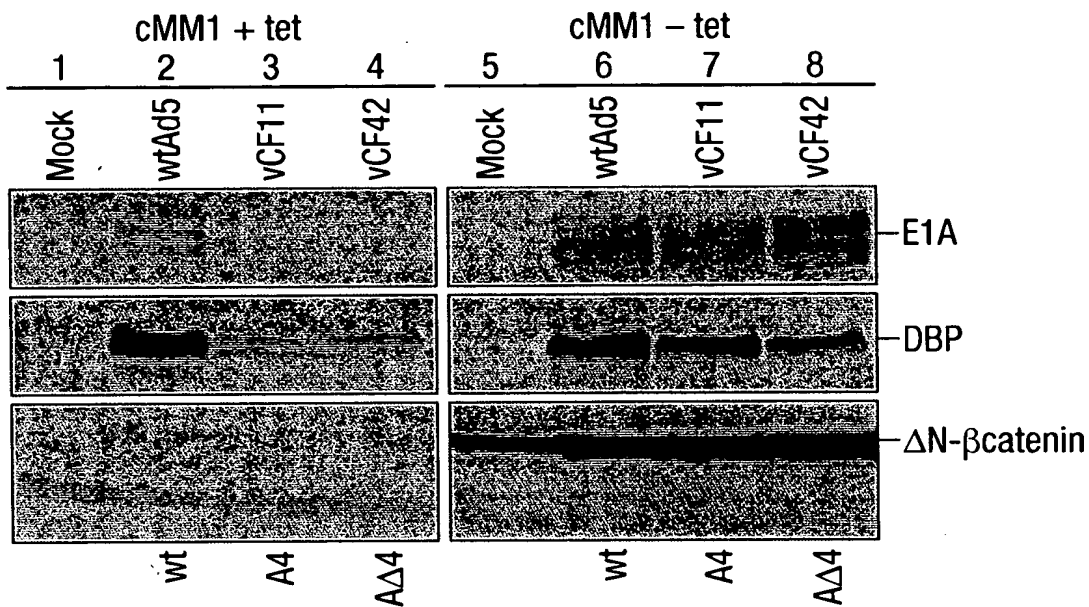
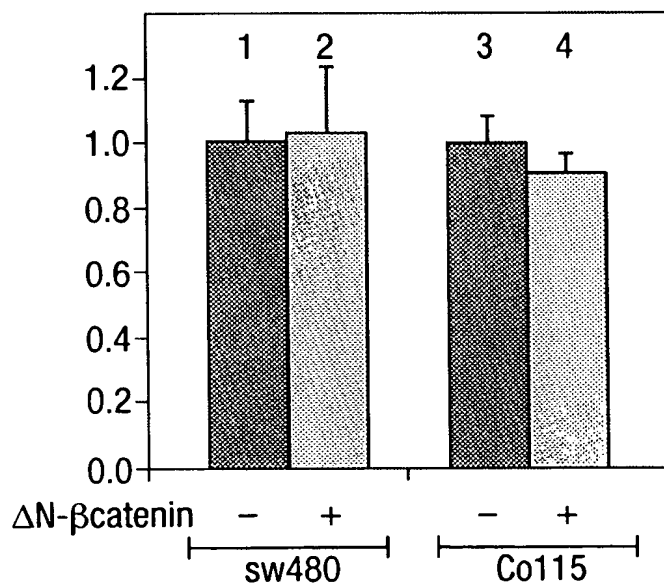


Fig.4.



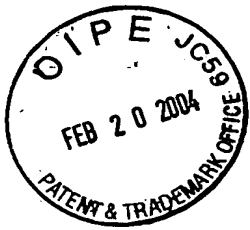
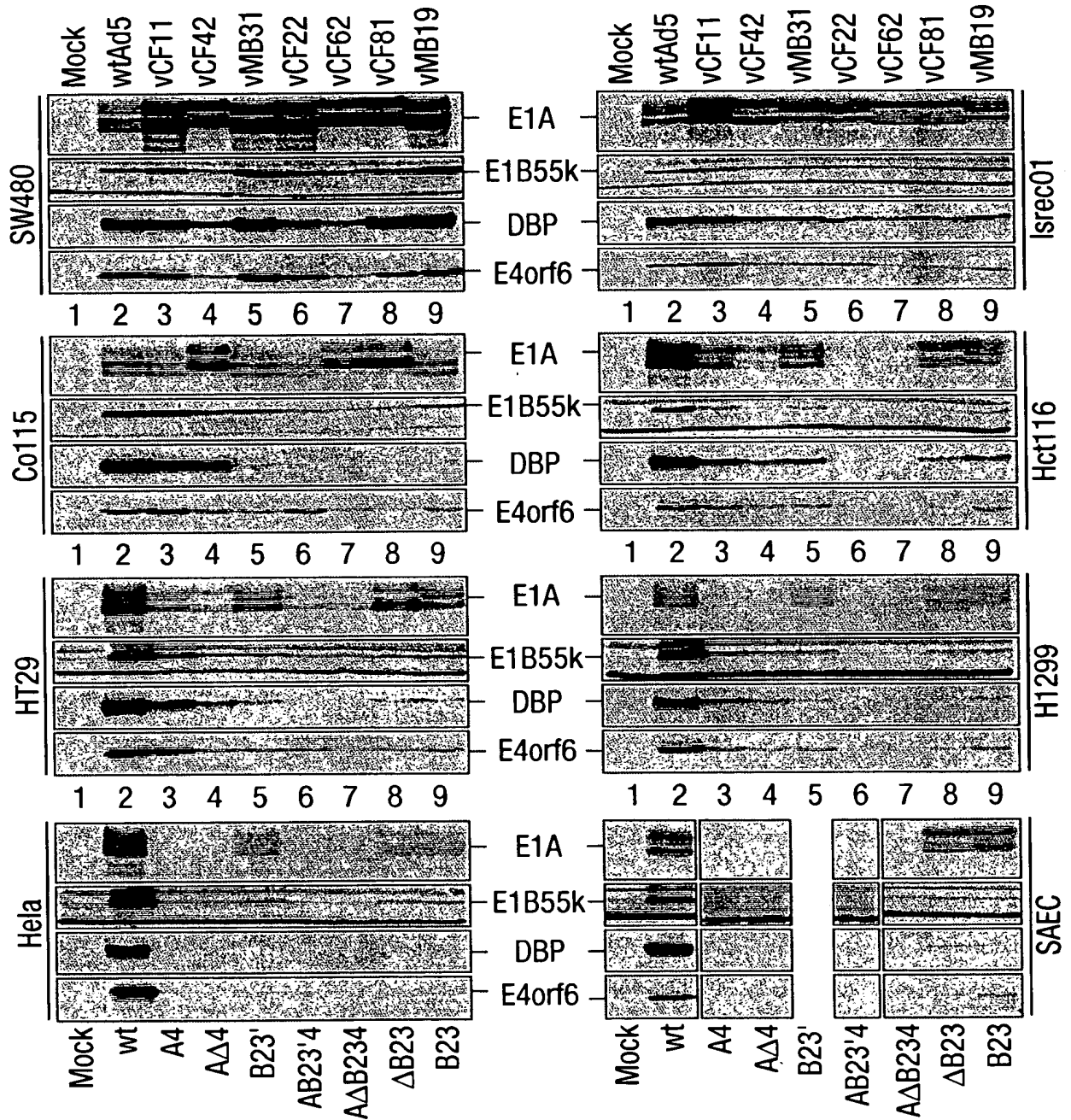


Fig.3.



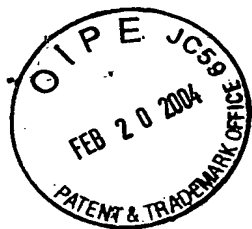


Fig.5A.

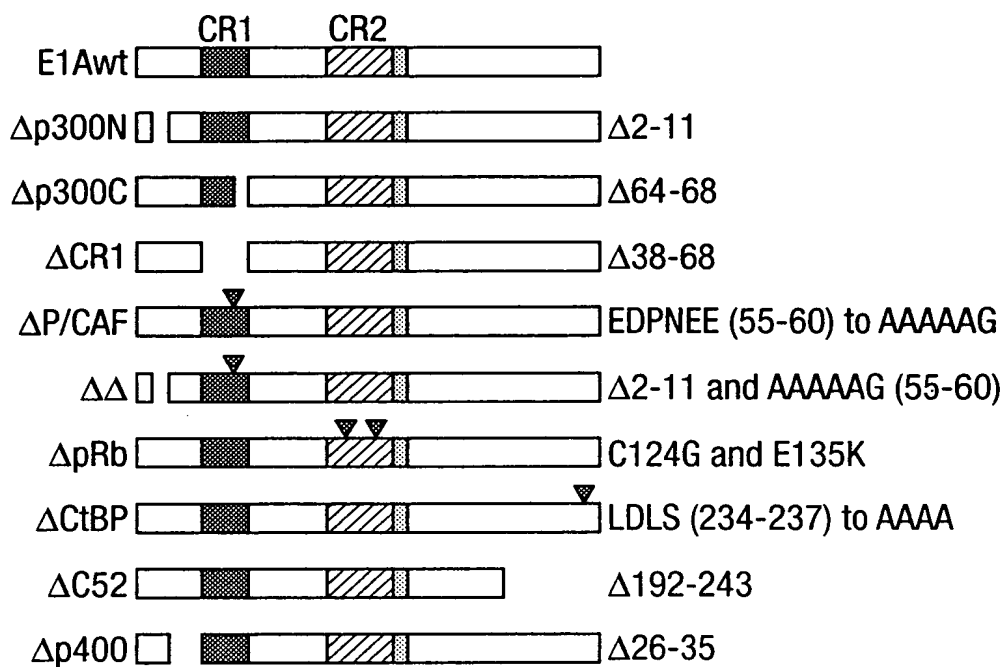


Fig.5B.

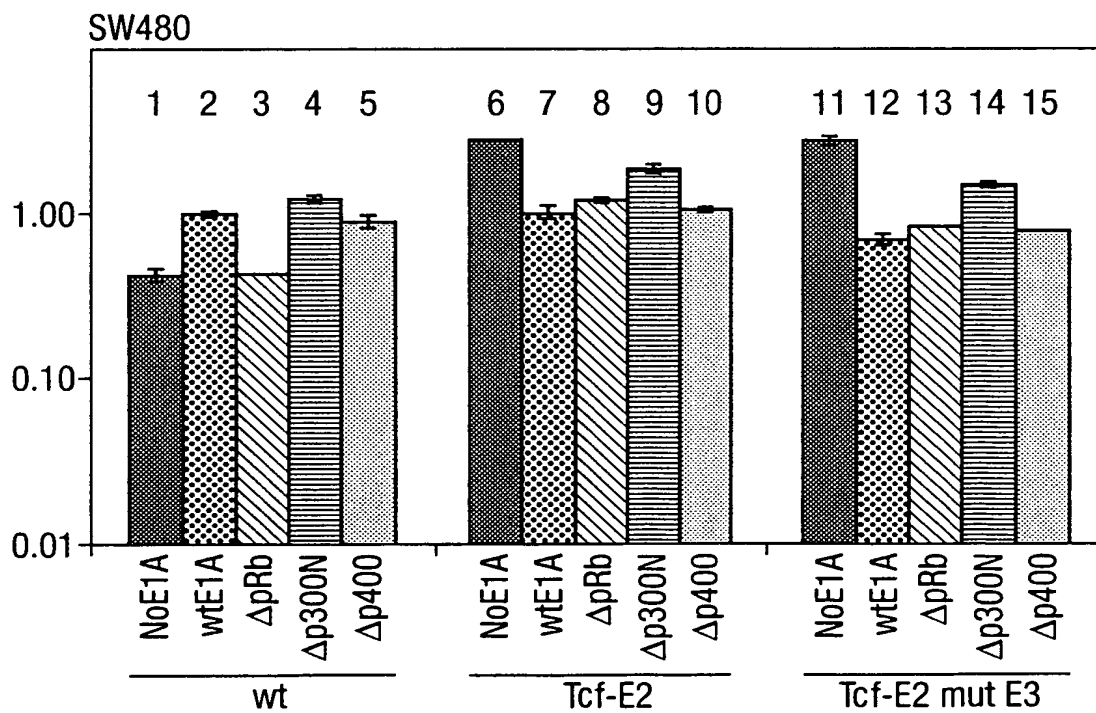




Fig.5C.

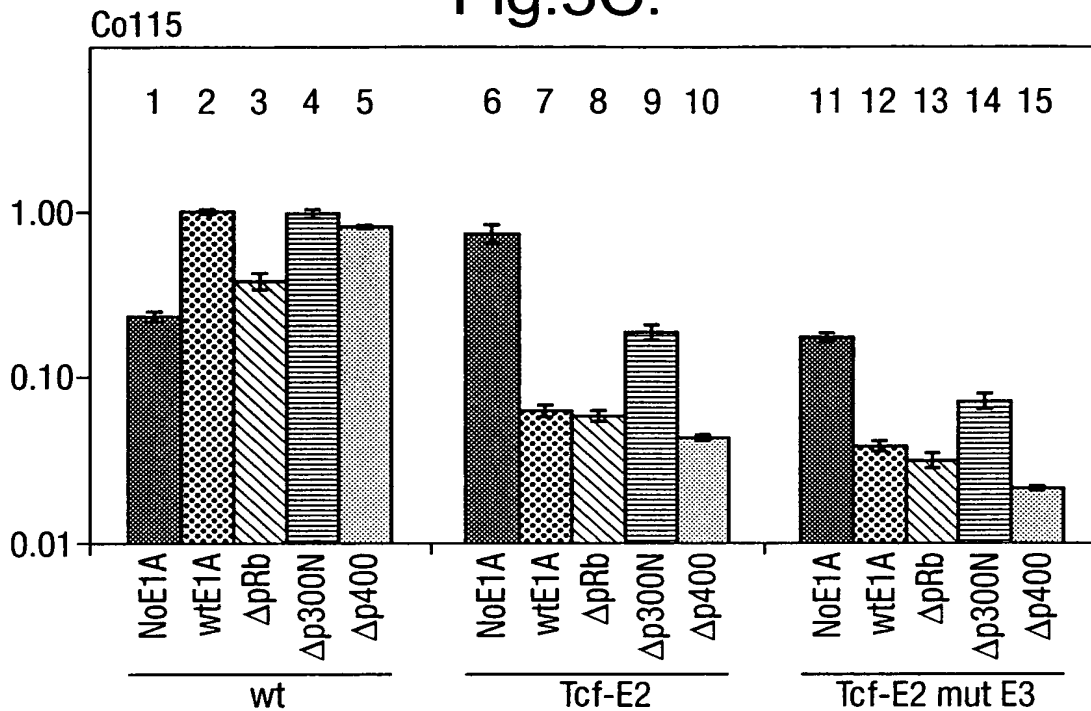
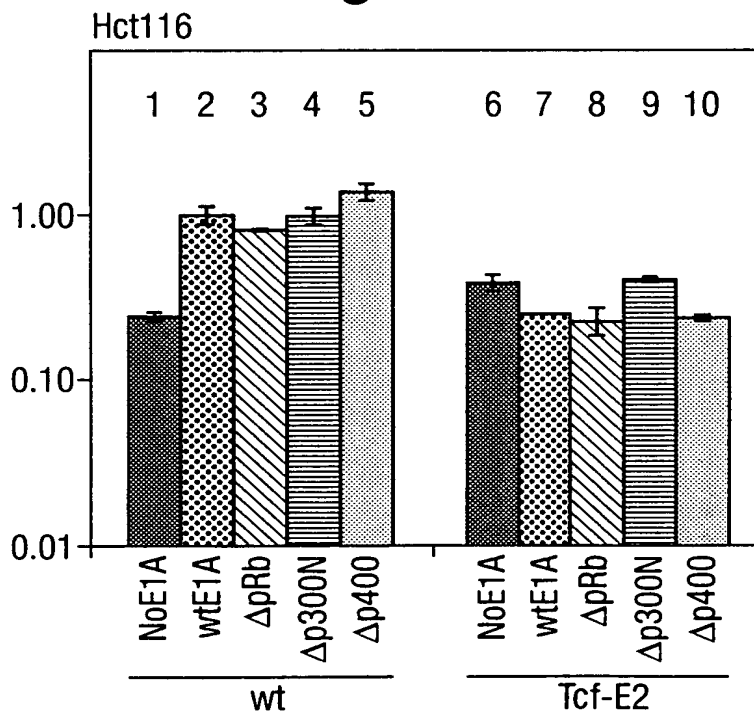


Fig.5D.



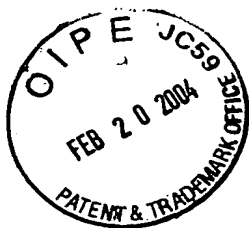


Fig.6A.

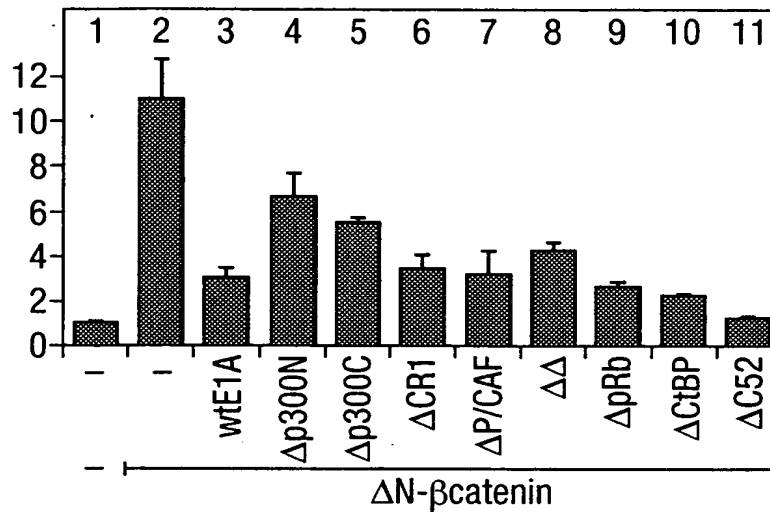


Fig.6B.

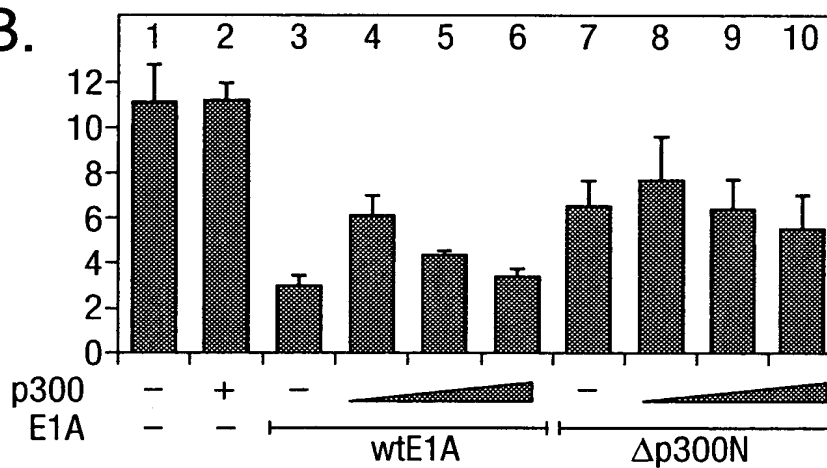
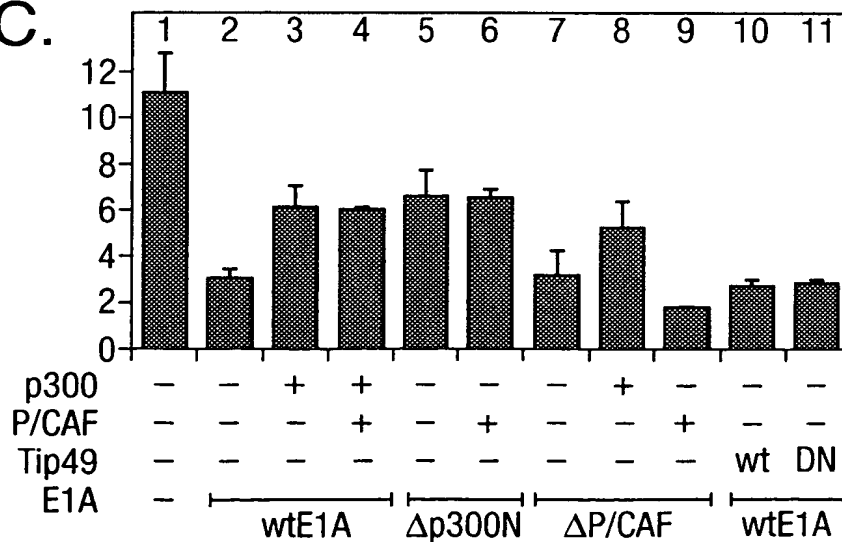


Fig.6C.



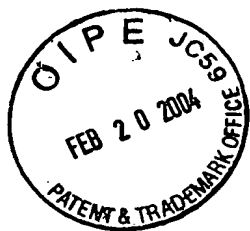


Fig.7A.

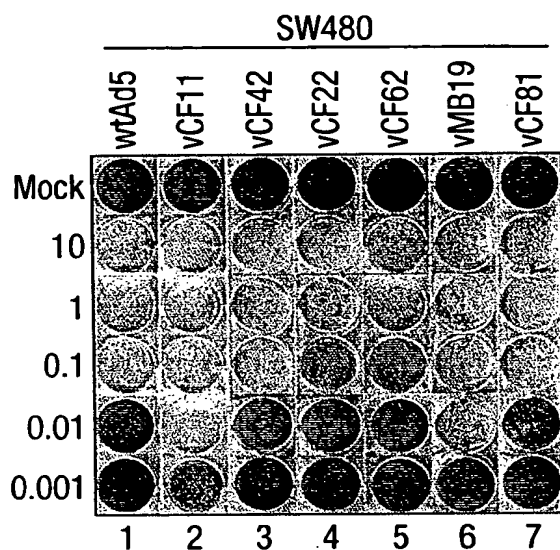


Fig.7B.

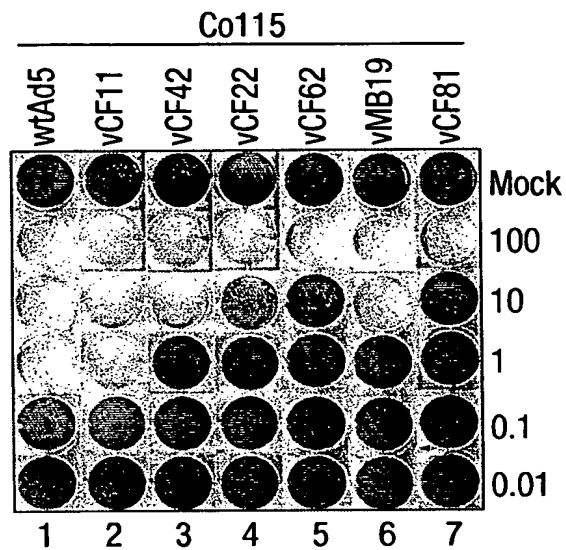


Fig.7C.

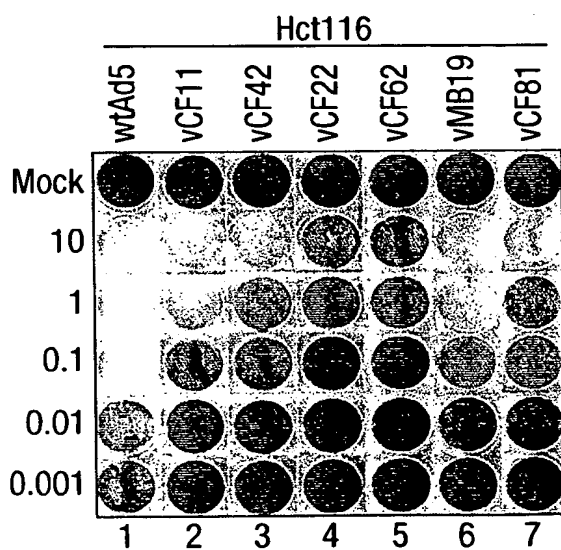
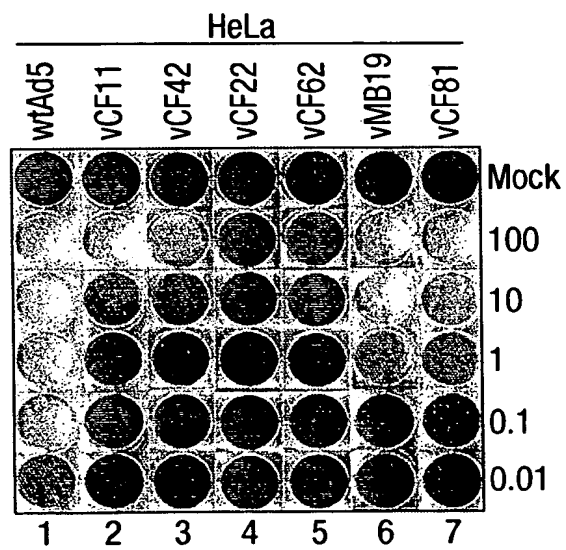


Fig.7D.



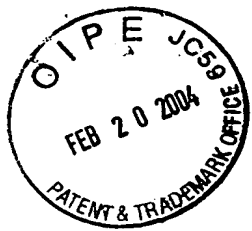
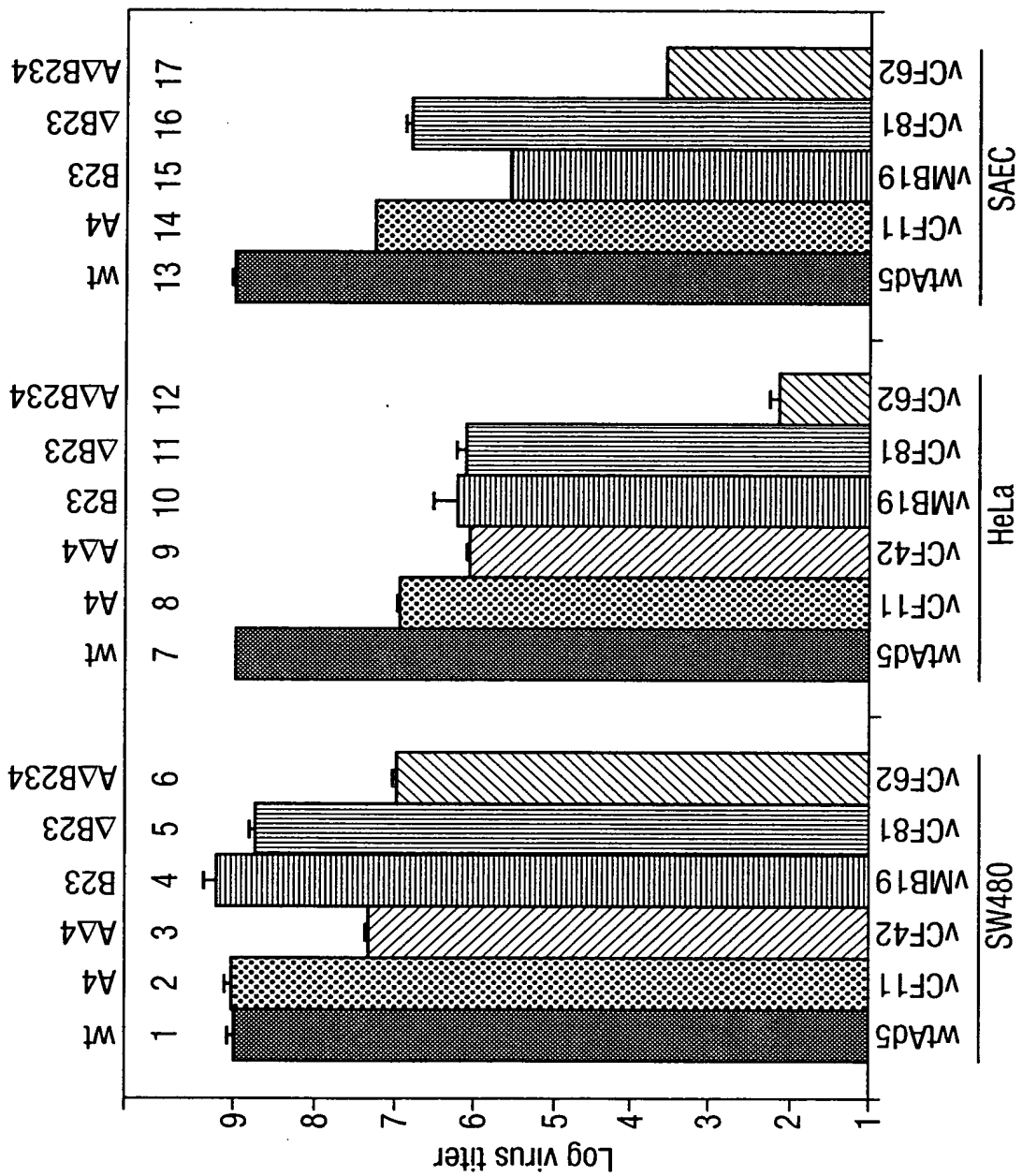


Fig.8.



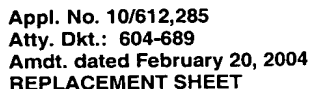


Fig. 9A.

E1A promoter

Region of max DNA replication

Sp1

ATF

CATCATCAATAATATACCTTATTTTGGATTGAAGCCCAATATGATATGAGGGGGTGGAGTTTGTGACGTGGCGCGGGCGGTG

CATCATCAATAATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGCCCTTTTGATCTTTAATCCCTTTGATC

Tcf Tcf

ITR - > |

Spl ATF

E1A-F

E1A-F

WT GGAAACGGGGGGGTACGTAGTGTGGCGGAAGTGTGATGTTGCAAGTGTGGCGGAACACATGTAAAGCGGATGTGGC

[illegible]

Tcf

New ITR ->

E1A-F

E2F

E1A-F

wt AAAAGTGACGTTTTTGGTGTGCGCGCGGTGTACACAGGAAGTGACAAATTTTCGCGCGGTTTAGCGCGATGTTGTAGTAAATT

Mut ::

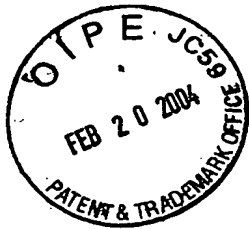


Fig.10A.

E4 promoter

	Cap site	Tata Box	E4F1
Wt	GTCA	<u>CAGTAAAGGGCC</u> AAGTGCAGAGCGAGTATATATAGGACTAAAAATGACGTAA	<u>CGGTAAAGTCCACAAAAA</u>
Mut	GTCA	<u>CAGTAAAGGGCC</u> AAGTGCAGAGCGAGTATATATAGGACTAAAAATGACGTAA	<u>CGGTAAAGTCCACAAAAA</u>

ATF

Wt	CACCCAGAAAACCGCACGCGAACCTACGCCCAGAAACGAAAGCCAAAAAACCACAACTTCCTCAAAATCGTCACTTCCGTTT
Mut	CACCCAGAAAACCGCACGCGAACCTACGCCCAGAAACGAAAGCCAAAAAACCACAACTTCCTCAAAATCGTCACTTCCGTTT

E4F1

Wt	TCCCACGTTACGTCACTTCCCATTTTAAAGAAAACACTACAATTCCCAACACATACAAGTTACTCCGCCCTAAAC
Mut	TCCCACGTTACGTCACTTCCCATTTTAAAGAAAACACTACAATTCACTAGCAAAACACCTGGCGAGTCTCCACGTAAACGGT

AVII AVI

Wt	CAAGTCCCCGGCCCTAGACAAAATATTACGGCGTATGAGTAACACAAAATTATTTCAGATTTCACCTTCCCTTATTTCAGTT
Mut	CAAGTCCCCGGCCCTAGACAAAATATTACGGCGTATGAGTAACACAAAATTATTTCAGATTTCACCTTCCCTTATTTCAGTT

AV AVI

AV

AV

AV

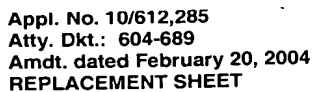


Fig. 10B.

✓ - ITR

ATF

Wt CTAGTCAACCGCCCGCGTTCACGCCCGCGG

TTCCCGCGAAATGGCCAAATCTTACTCGGTACGCCCAAATTACTACTAGTGGGATCAAAGGGATCCAGATCAAAGGGA

E2F AII

AI

304

301

<- New ITR

ATF **Sp1** **Region of max DNA replication**

WT CCAGGTCACAAACTCCACCCCCTCATATATGGCTTCAATCCAAAATTAAGGTATATTATTGATGATG

Mut TTAAGATCAAAGGGCCACCCTCATTTATCGCTTCAATCCAAATAAGGTATATTATTGATGATG

Tcf

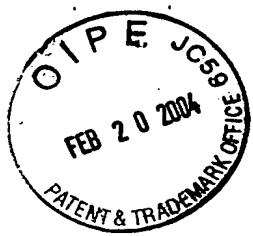
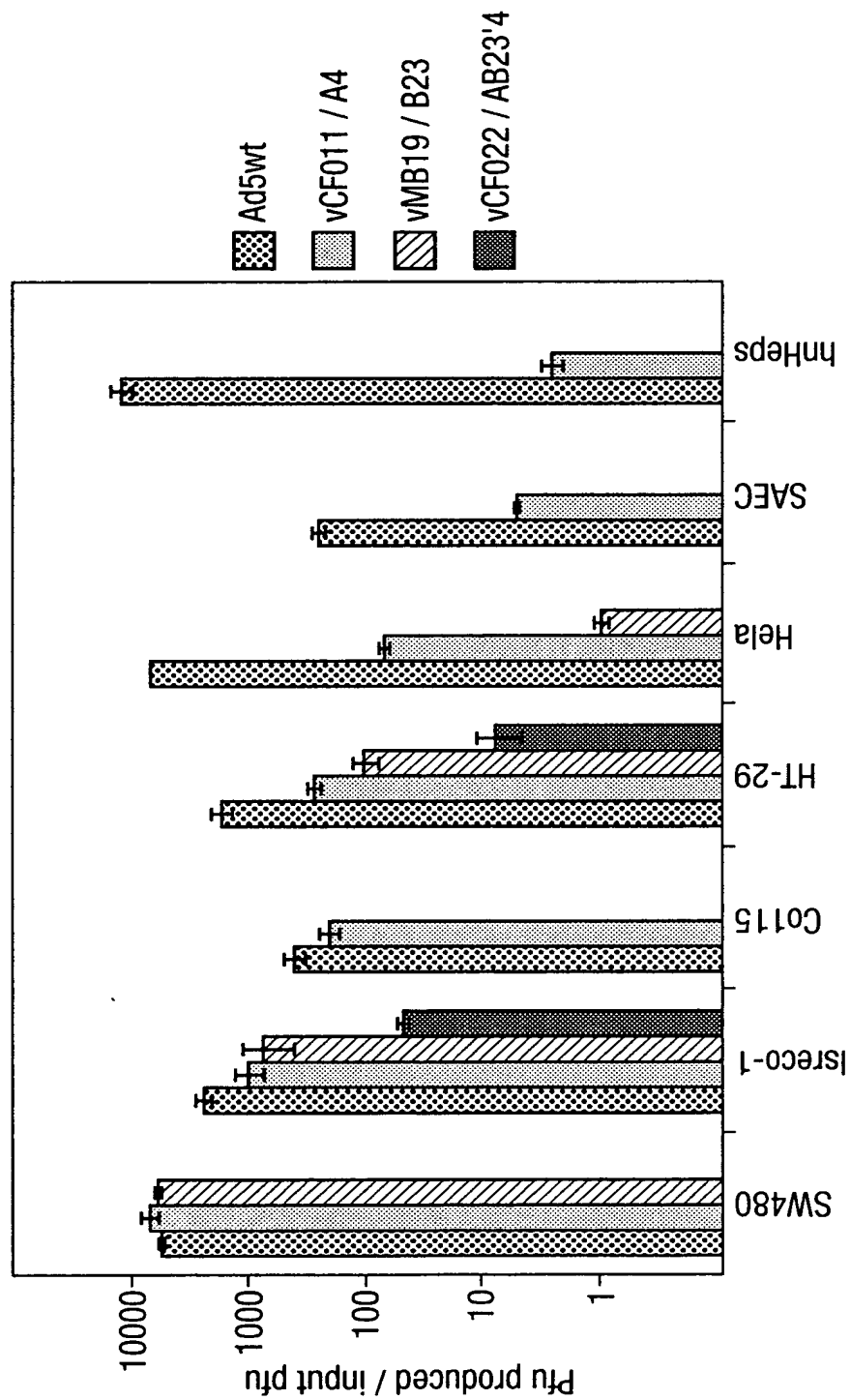


Fig.11.



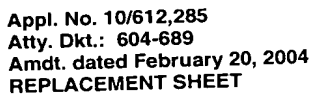
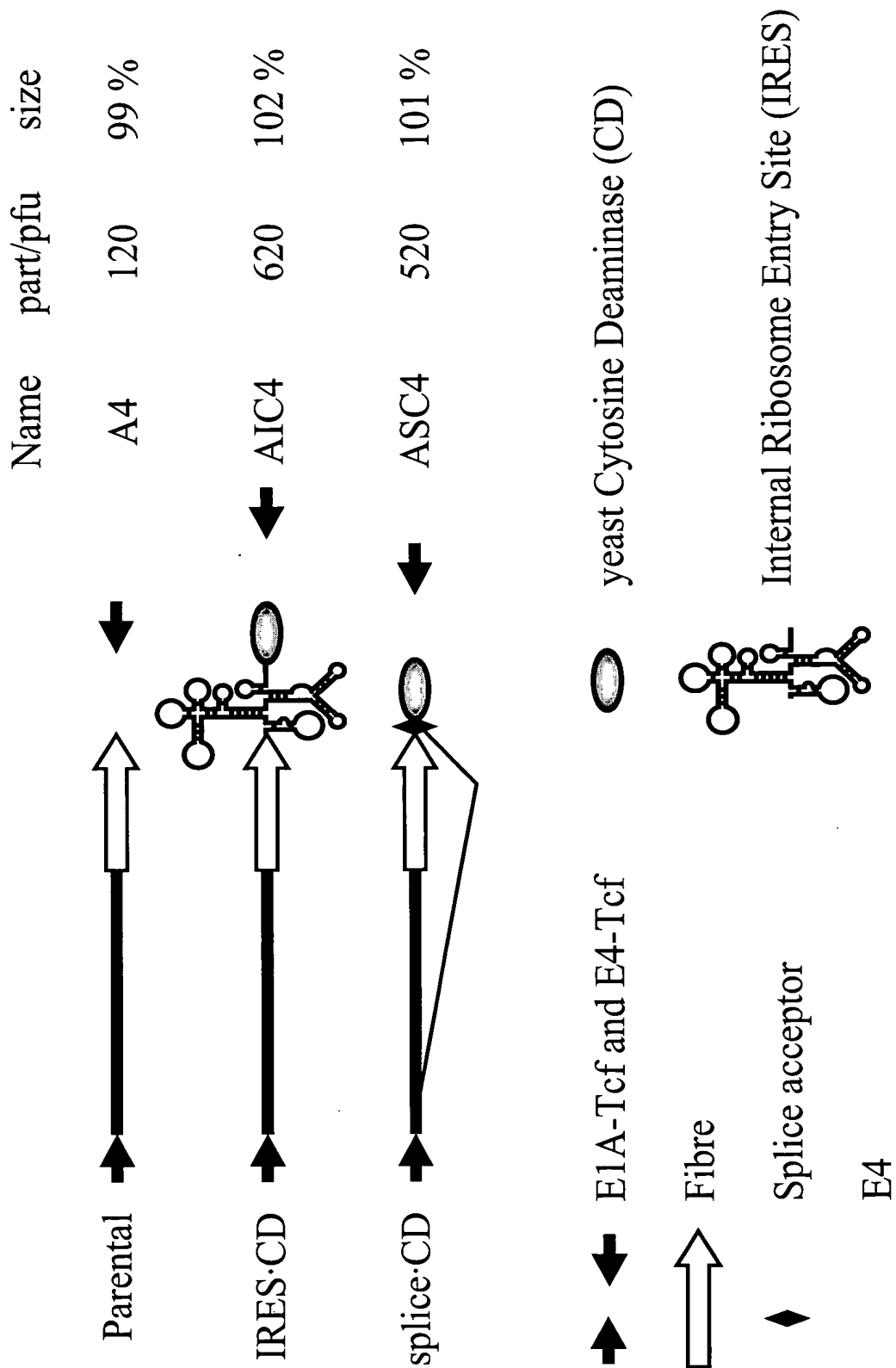
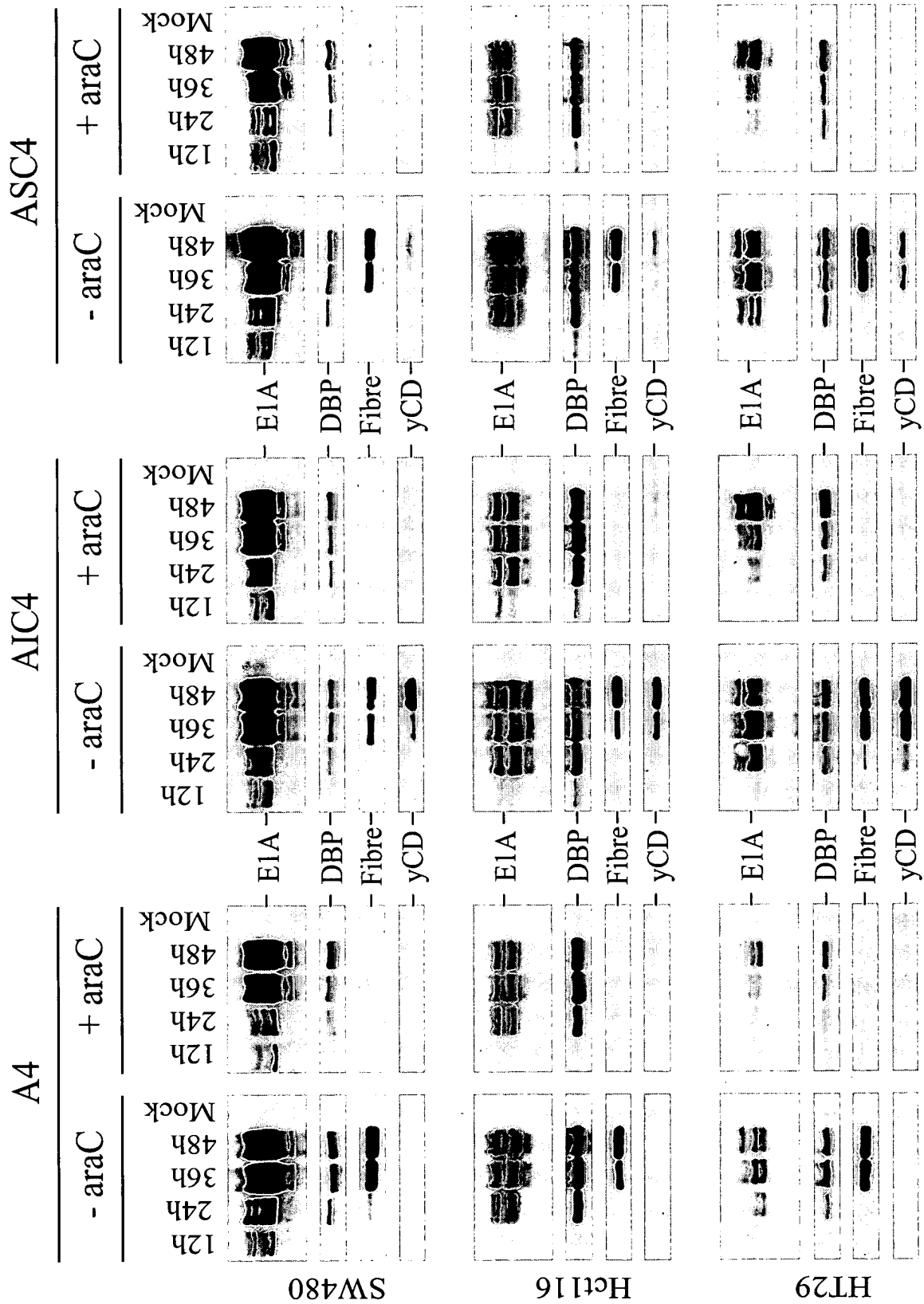


Fig. 12.





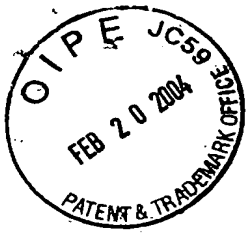


Fig. 14A.

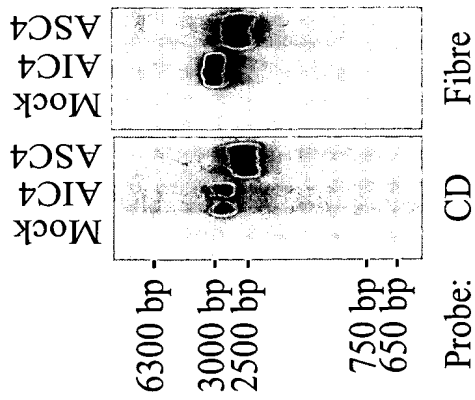


Fig. 14C.

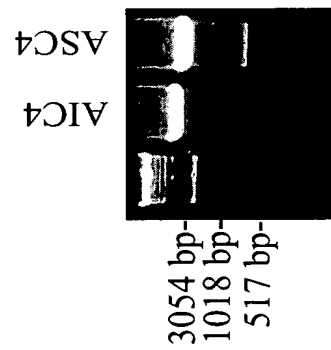
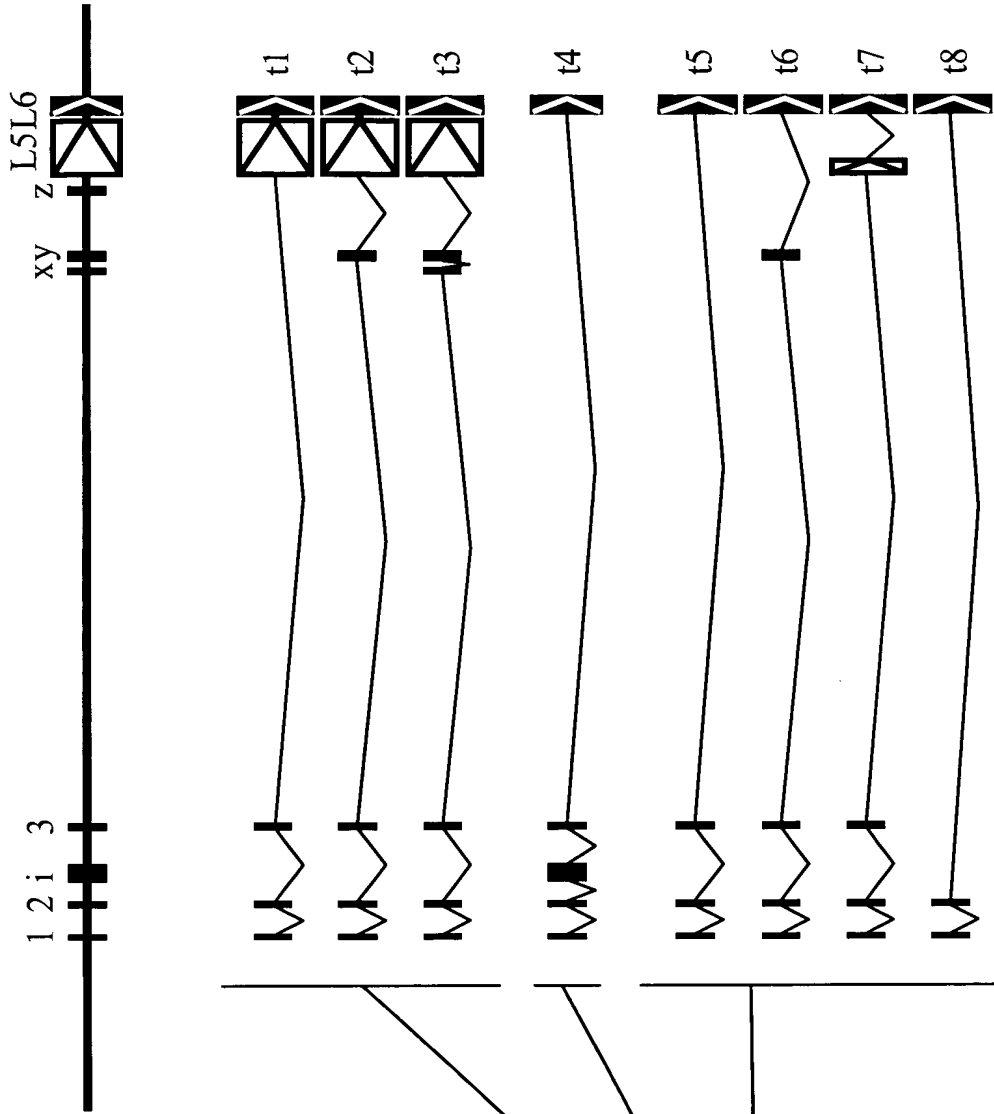


Fig. 14B.

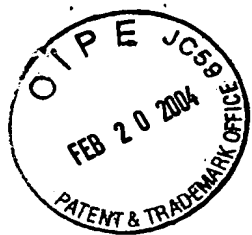


Fig. 15A.

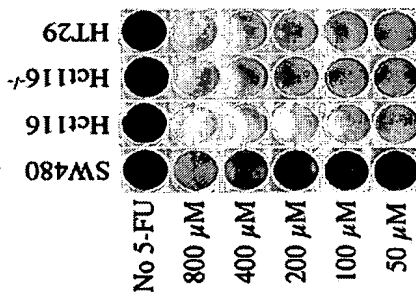


Fig. 15B.

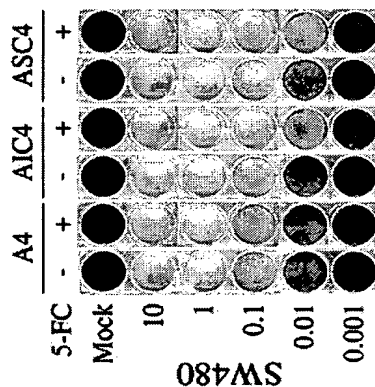


Fig. 15C.

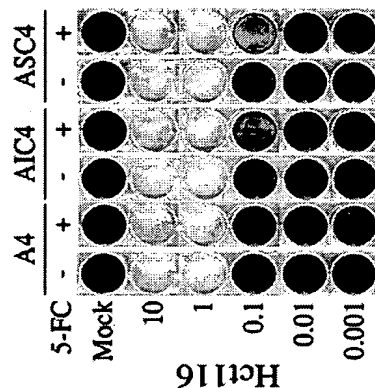


Fig. 15D.

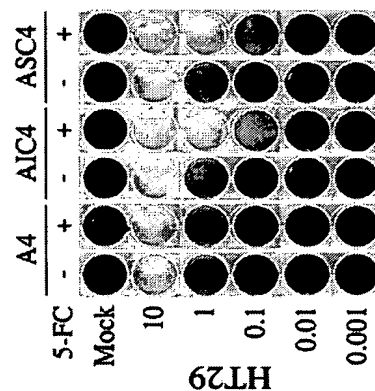
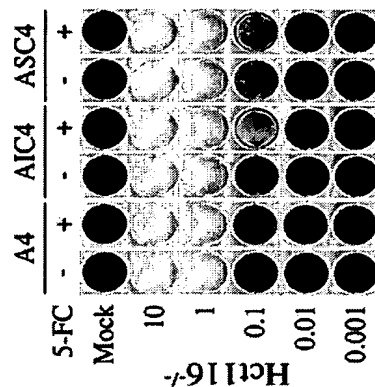


Fig. 15E.

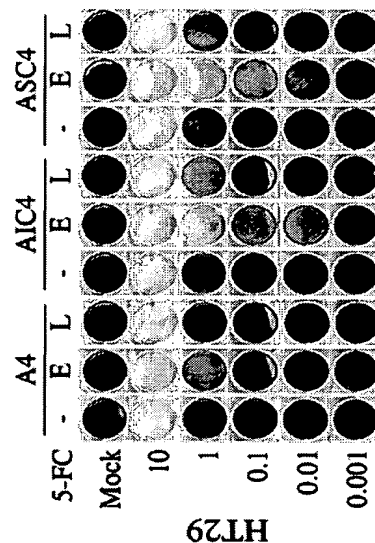


Fig. 15F.

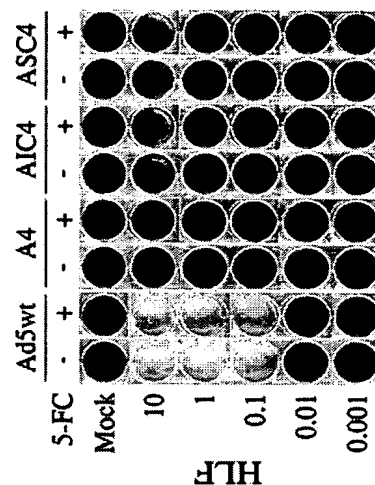


Fig. 15G.

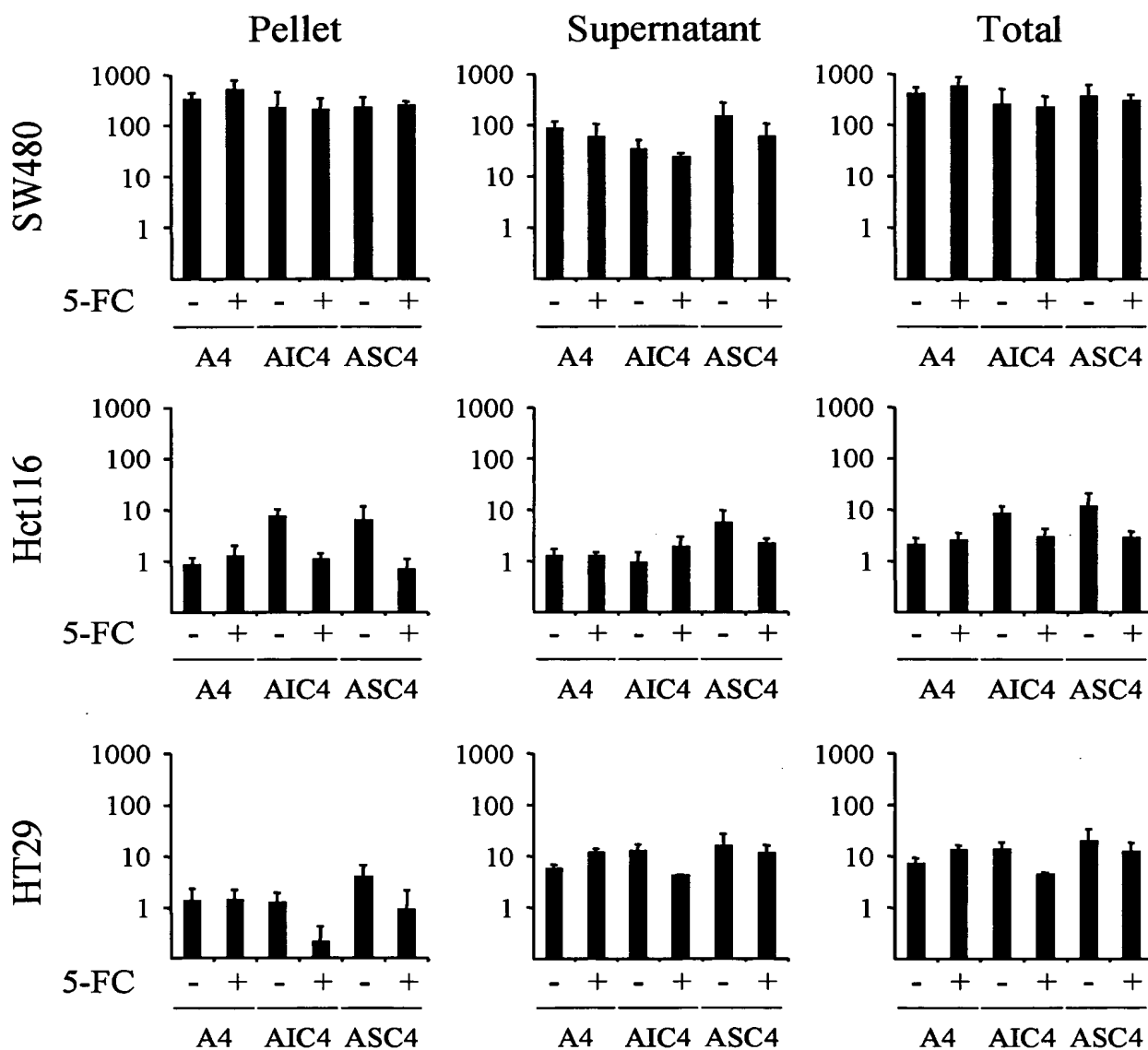


Fig.16.